



C-111 Spreader Canal

Western PIR – Tentatively Selected Plan Briefing
Presented By – John Shaffer, Project Manager

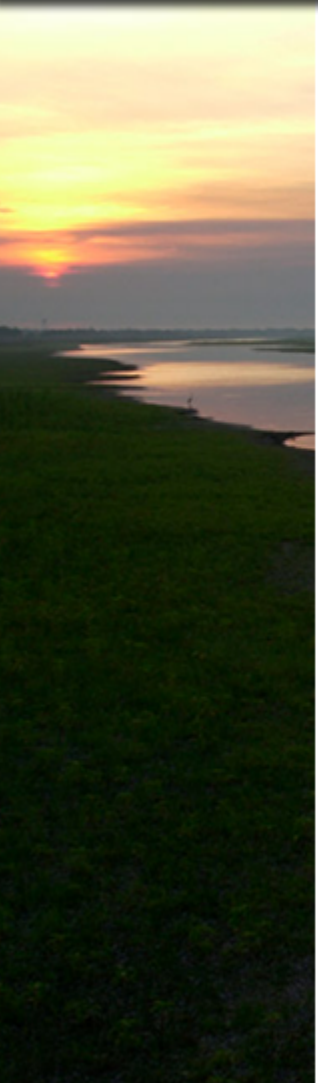
Presentation Overview

- **Informational Briefing**
 - Existing system
 - Project as originally envisioned
 - Problems as originally envisioned
 - Rationale for splitting into 2 Phases
 - Alternatives considered
 - Comparison of alternatives
 - Identify Recommended TSP
 - Next Steps

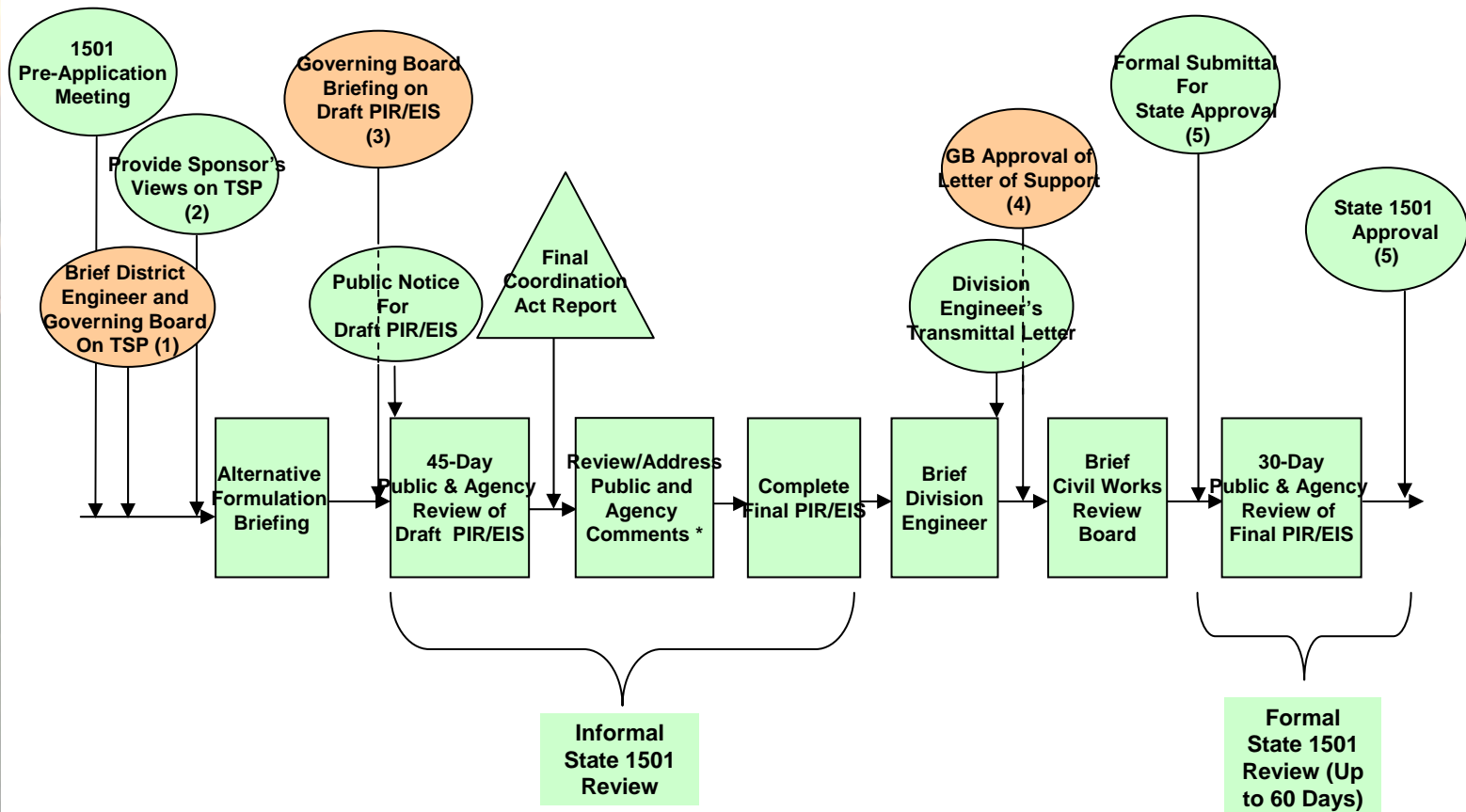


C-111 Spreader Canal CERP Project

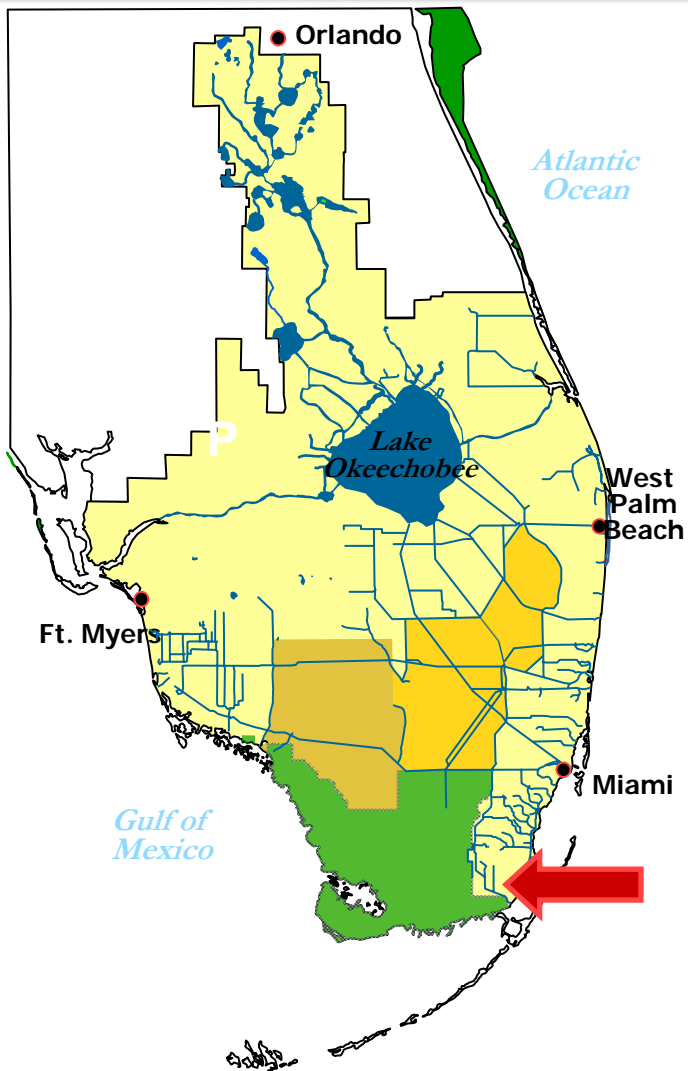
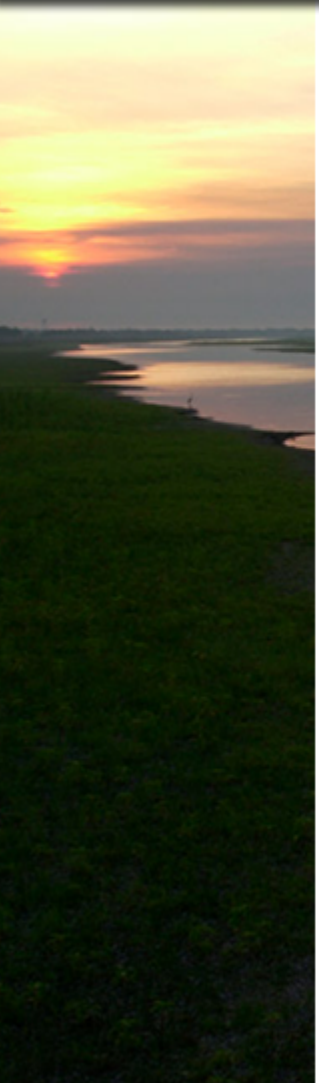
- One of the 11 initial CERP projects authorized for implementation under WRDA 2000
- An enhancement of the C-111 Federal Project which was authorized via the 1994 GRR
- A8 will construct some of the Western PIR recommended features in order to provide early ecological benefits



Formal Governing Board Points of Entry

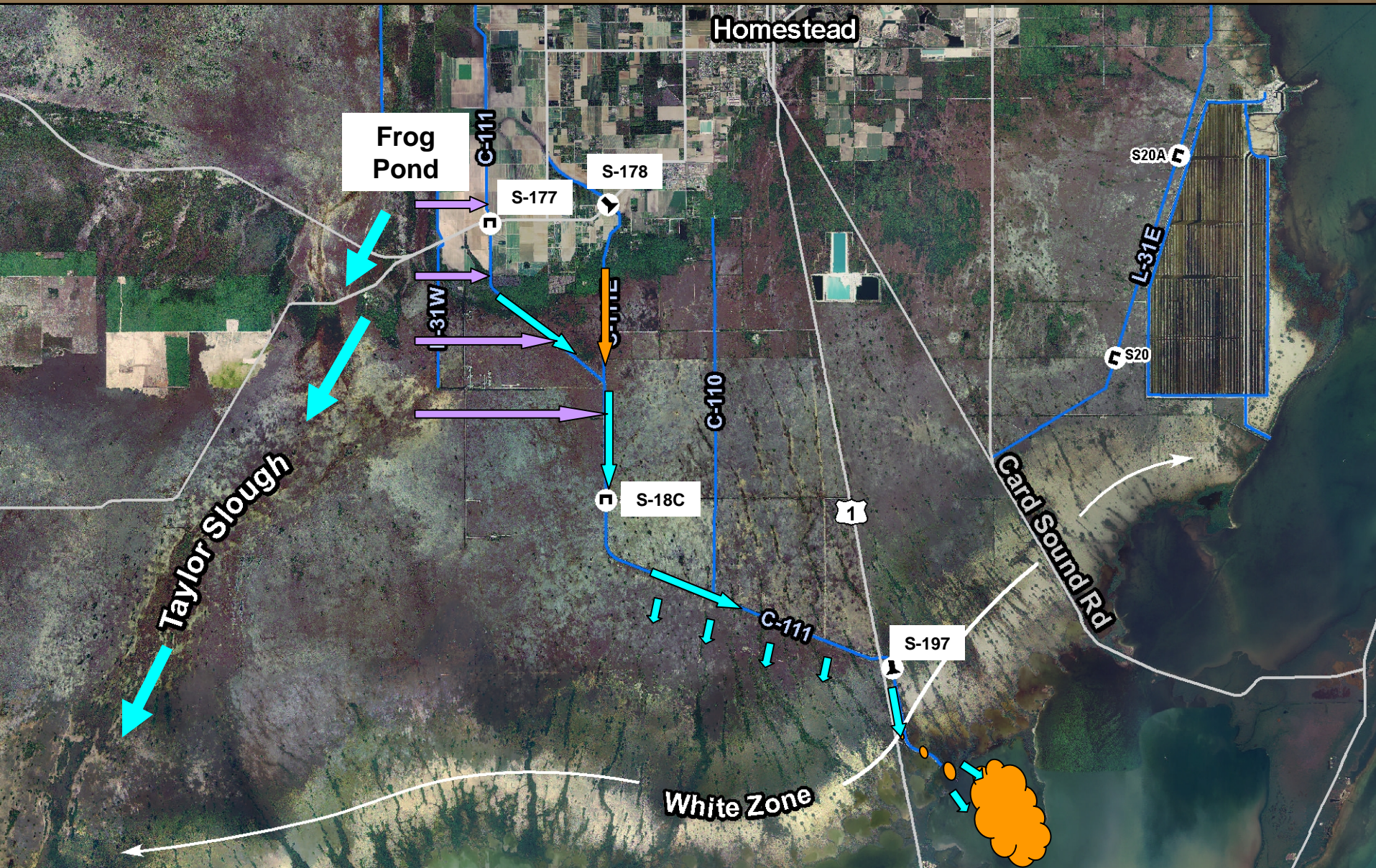


Project Location



C-111 Spreader
Canal Project

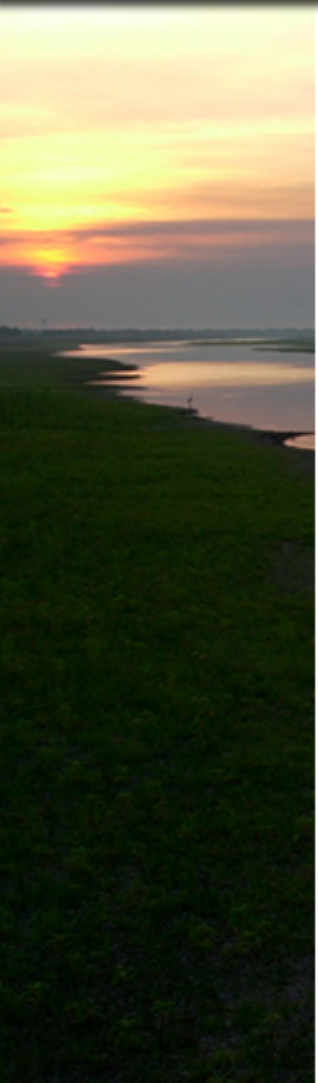
Existing System



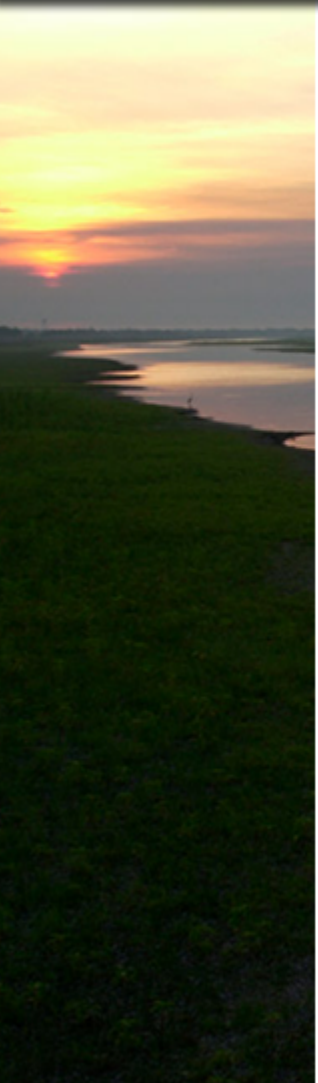
"Yellow Book" Alternative



Problems with the “Yellow Book” Plan

- 
- **Significant uncertainties exist related to water availability, and spreader canal flooding effects**
 - **Concerns regarding extending benefits to Southern Glades and Model Lands before restoration of the Taylor Slough ecosystem had been fully realized**
 - **USFWS recommended against locating Stormwater Treatment Area in pristine everglades**
 - **Water quality concerns appear to be limited to discharges from S-178**

Incremental Adaptive Restoration (IAR) Approach

- 
- **To resolve implementation uncertainties, the team has split the project into two phases, with separate Project Implementation Reports**
 - **Initial (Western) PIR Focus –**
 - **Reduce seepage losses from Taylor Slough**
 - **Reduce damaging pulse discharges from S-197**
 - **Resolve uncertainties related to Spreader Canal**
 - **Second (Eastern) PIR Focus -**
 - **Construct Spreader canal to Southern Glades and Model Lands**
 - **Optimize operations to support the elimination of lower C-111 Canal**

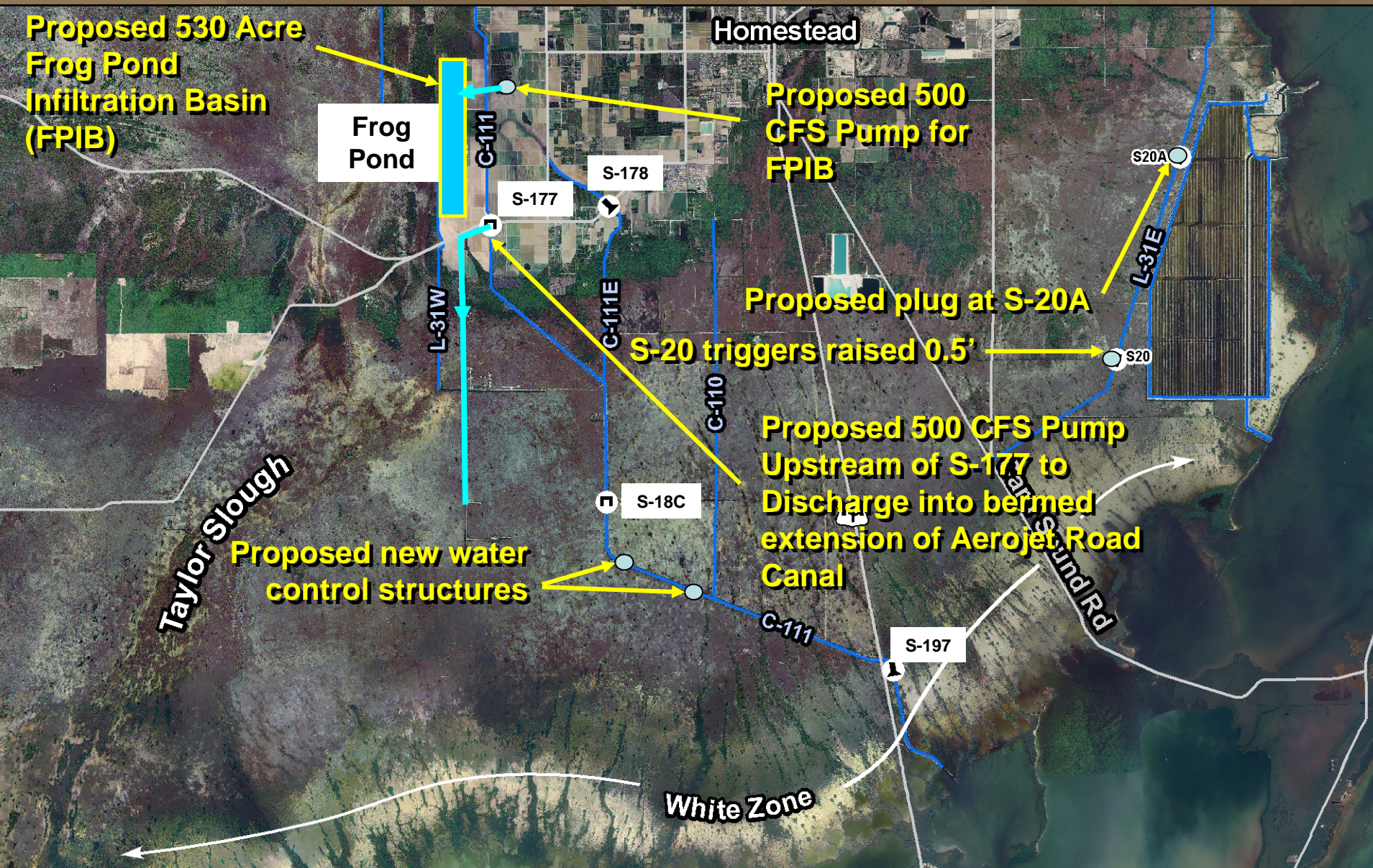
Alternative 1C



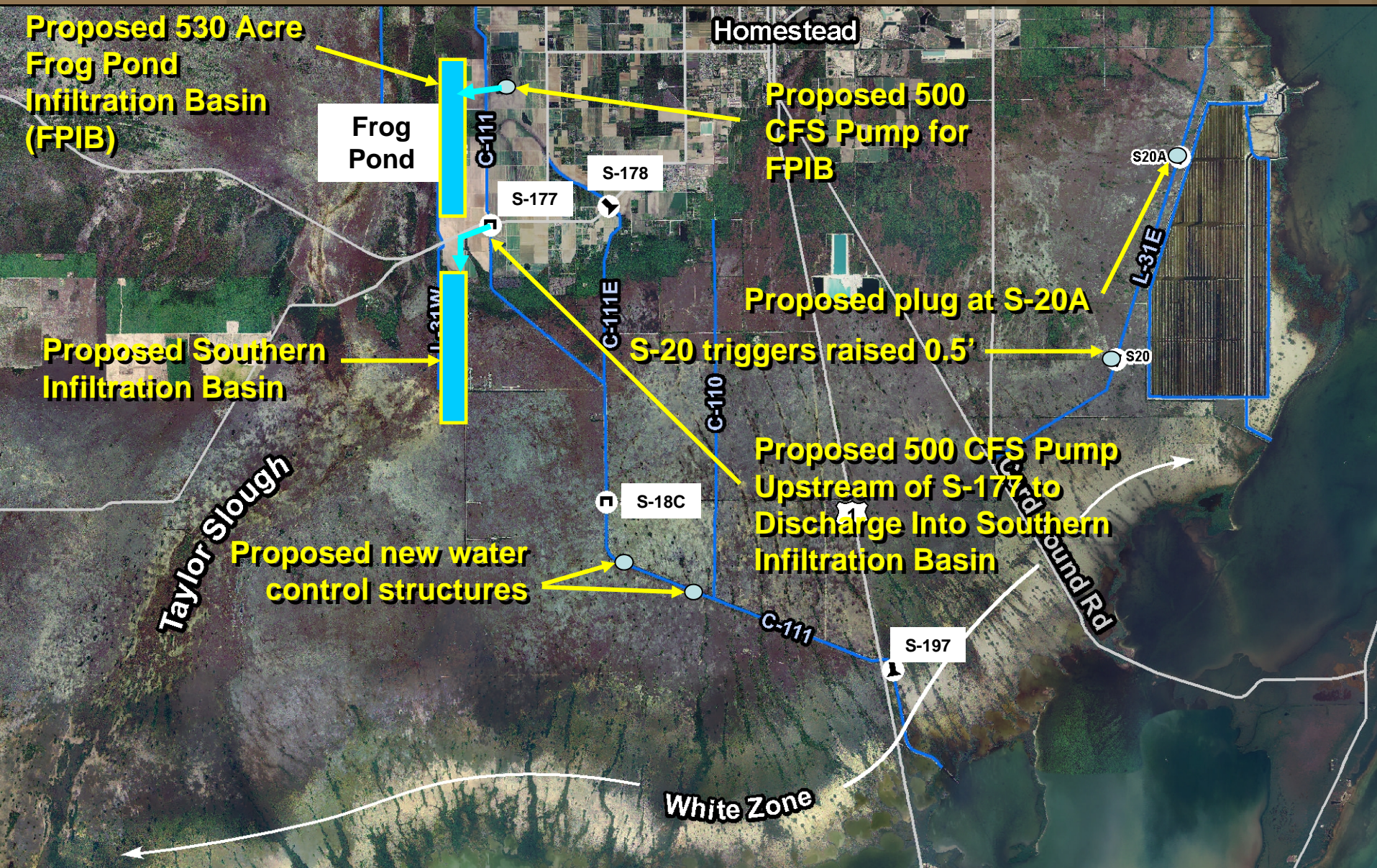
Alternative 1D



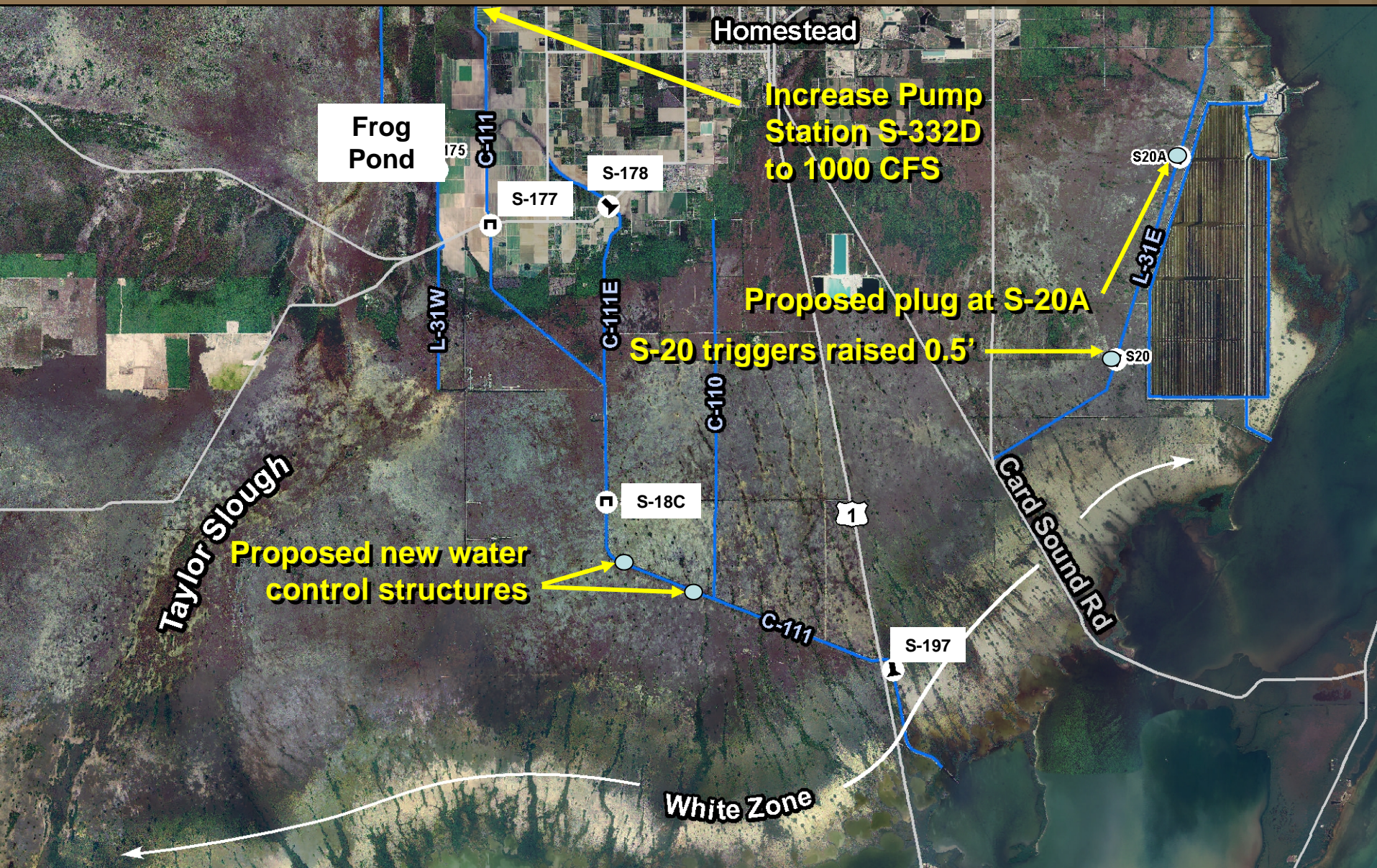
Alternative 2D – Tentatively Selected Plan



Alternative 3D



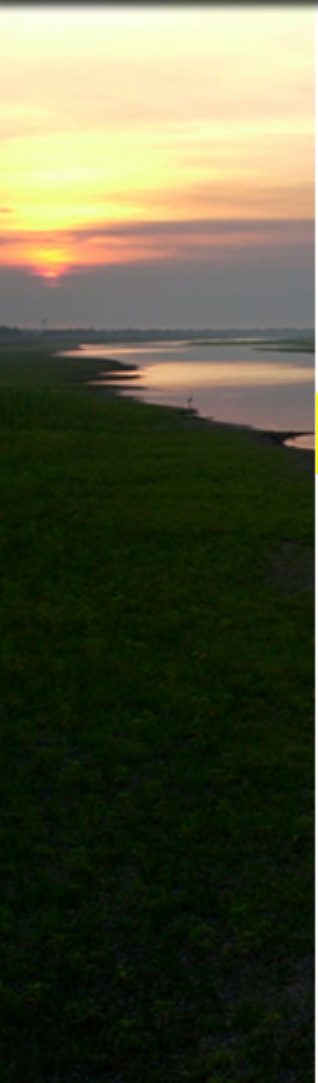
Alternative 4D



Alternative 6D



Cost Estimates for Western PIR Features



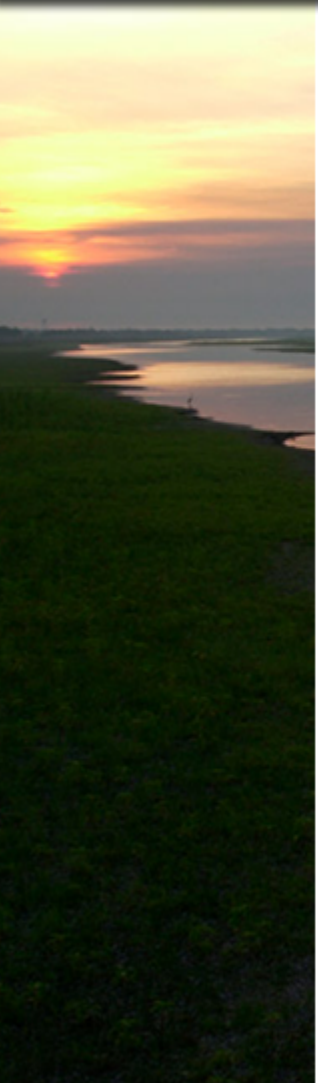
Alt	Construction	Real Estate	total Cost
1C	\$41,600,000	\$12,500,000	\$54,100,000
1D	\$50,100,000	\$36,400,000	\$86,500,000
2D	\$77,500,000	\$41,400,000	\$118,900,000
3D	\$85,900,000	\$42,600,000	\$128,500,000
4D	\$24,400,000	\$29,000,000	\$53,400,000
6D	\$402,100,000	\$35,400,000	\$437,500,000

Restudy Estimate in FY99 Dollars - \$94M

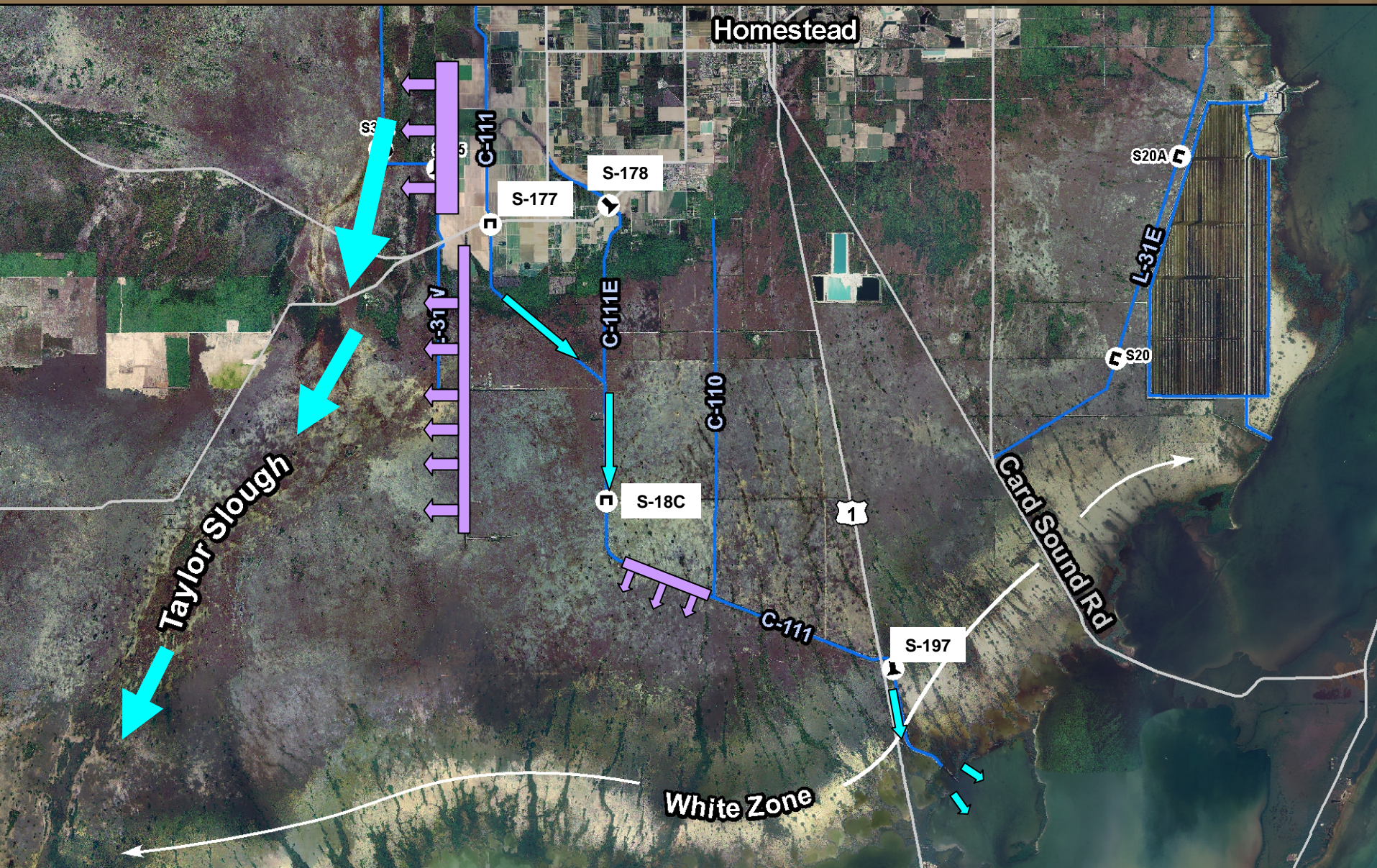
Restudy Cost (2006) plus 20% then escalated - \$134M

Why Alternative 2D?

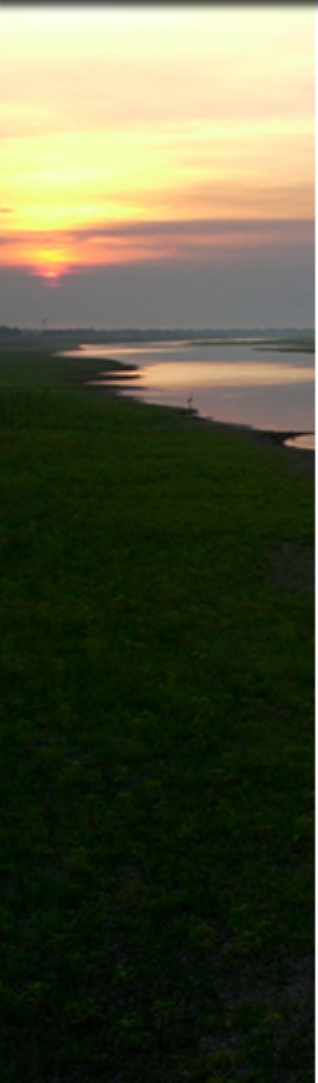
- Provides significant ecological benefits
- Cost effective
- Least risk and uncertainty
- Compatible with future Spreader Canal Construction and A8 plans.
- Operational flexibility
- Least risk to Cape Sable Seaside Sparrow



Alt 2D Proposed Operations




Uncertainties to be Addressed by Pilot Features

- 
- **What are the flooding effects associated with various spreader canal discharge rates?**
 - **Can a spreader canal replace the lower C-111 canal?**
 - **Can an infiltration and/or source controls ensure S-178 discharges are “marsh ready”?**

TSP = Alt 2D and Recommended Pilot Features



Next Steps

- 
- **Independent Technical Review** **Dec 07**
 - **Alternative Formulation Briefing** **Mar 08**
 - **Publish Draft PIR in Federal Register** **Aug 08**
 - **Submit Chief's Report to Congress** **May 09**

C-111 Spreader Canal – Western PIR

Questions?

